# 6FH5

## High-Mu Triode

**7-PIN MINIATURE TYPE**
**For VHF Tuner and Amplifier Applications**

**GENERAL DATA**

**Electrical:**

Heater, for Unipotential Cathode:

| | | |
|---|---|---|
| Voltage (AC or DC) . . . . . . . . . . . | 6.3 ± 10% | volts |
| Current at 6.3 volts . . . . . . . . . . | 0.2 | amp |

Direct Interelectrode Capacitances:

| | *Without External Shield* | *With External Shield*° | |
|---|---|---|---|
| Grid to plate. . . . . . . . . . . | 0.6 max. | 0.6 max. | $\mu\mu$f |
| Grid to cathode, internal shield, and heater . . . . . . | 3.2 | 3.2 | $\mu\mu$f |
| Plate to cathode, internal shield, and heater . . . . . . | 3.2 | 4 | $\mu\mu$f |

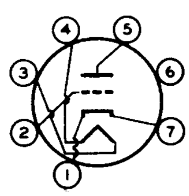
**Characteristics, Class $A_1$ Amplifier:**

| | | |
|---|---|---|
| Plate Voltage. . . . . . . . . . . . . . . | 135 | volts |
| Grid Voltage . . . . . . . . . . . . . . . | −1 | volt |
| Amplification Factor . . . . . . . . . . . | 50 | |
| Plate Resistance (Approx.) . . . . . . . . | 5600 | ohms |
| Transconductance . . . . . . . . . . . . . | 9000 | $\mu$mhos |
| Plate Current. . . . . . . . . . . . . . . | 11 | ma |
| Grid Voltage (Approx.) for plate $\mu$a = 100 . . . . . . . . . . . . . | −5.5 | volts |

**Mechanical:**

Operating Position . . . . . . . . . . . . . . . . . . . . . . .Any
Maximum Overall Length . . . . . . . . . . . . . . . . . . . 2-1/8"
Maximum Seated Length. . . . . . . . . . . . . . . . . . . . 1-7/8"
Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" ± 3/32"
Diameter . . . . . . . . . . . . . . . . . . . . . . 0.650" to 0.750"
Dimensional Outline. . . . . . . . . . . . . .See *General Section*
Bulb . . . . . . . . . . . . . . . . . . . . . . . . . . . . T5-1/2
Base . . . . . . Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW . . . . . . . . . . . .7FP

Pin 1 - Cathode
Pin 2 - Grid
Pin 3 - Heater
Pin 4 - Heater




Pin 5 - Plate
Pin 6 - Internal Shield
Pin 7 - Cathode

# 6FH5

**AMPLIFIER — Class A₁**

**Maximum Ratings,** *Design-Maximum Values:*

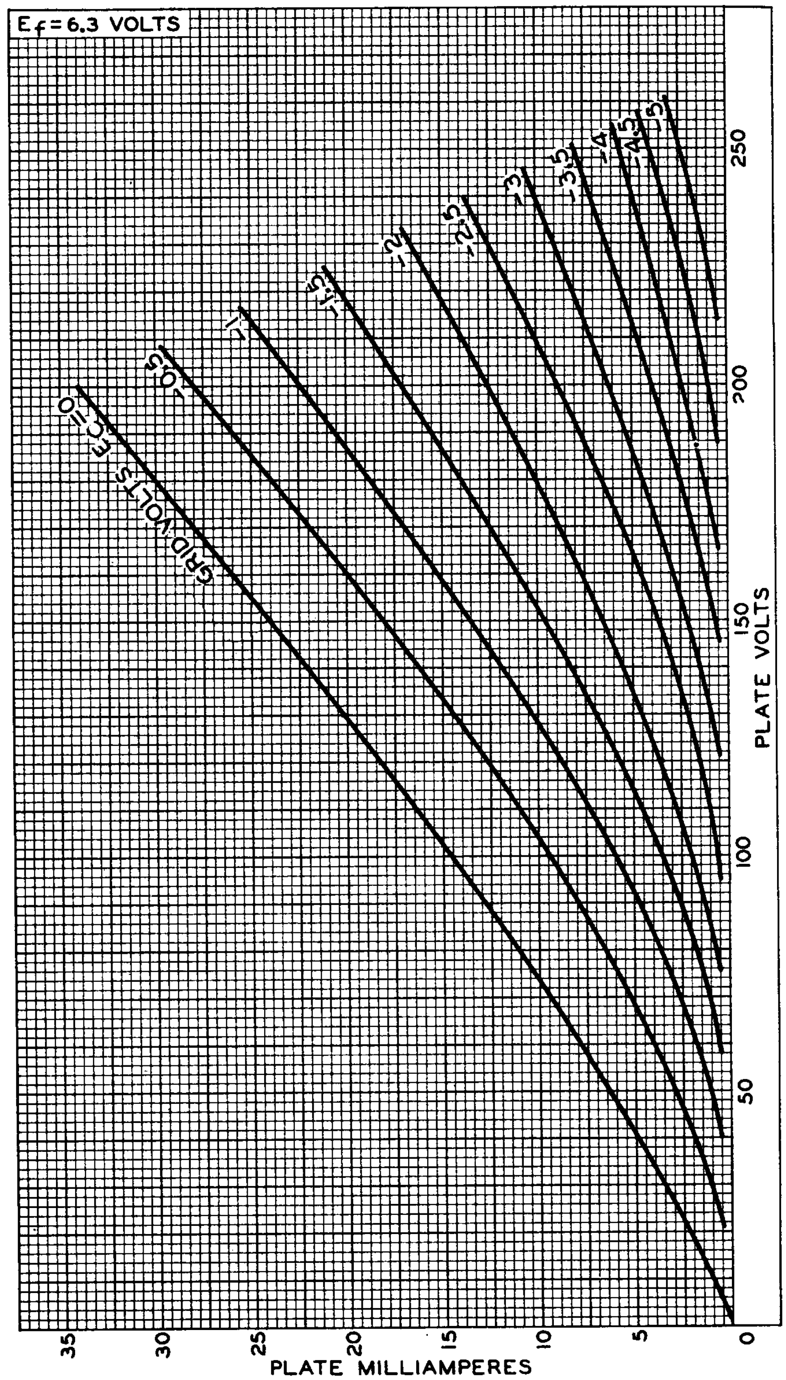
| | | |
|---|---|---|
| PLATE VOLTAGE | 150 max. | volts |
| GRID VOLTAGE: | | |
| Positive-bias value | 0 max. | volts |
| CATHODE CURRENT | 22 max. | ma |
| PLATE DISSIPATION | 2.2 max. | watts |
| PEAK HEATER-CATHODE VOLTAGE: | | |
| Heater negative with respect to cathode | 100 max. | volts |
| Heater positive with respect to cathode | 100 max. | volts |

**Maximum Circuit Values:**

| | | |
|---|---|---|
| Grid-Circuit Resistance: | | |
| For cathode-bias operation | 1 max. | megohm |

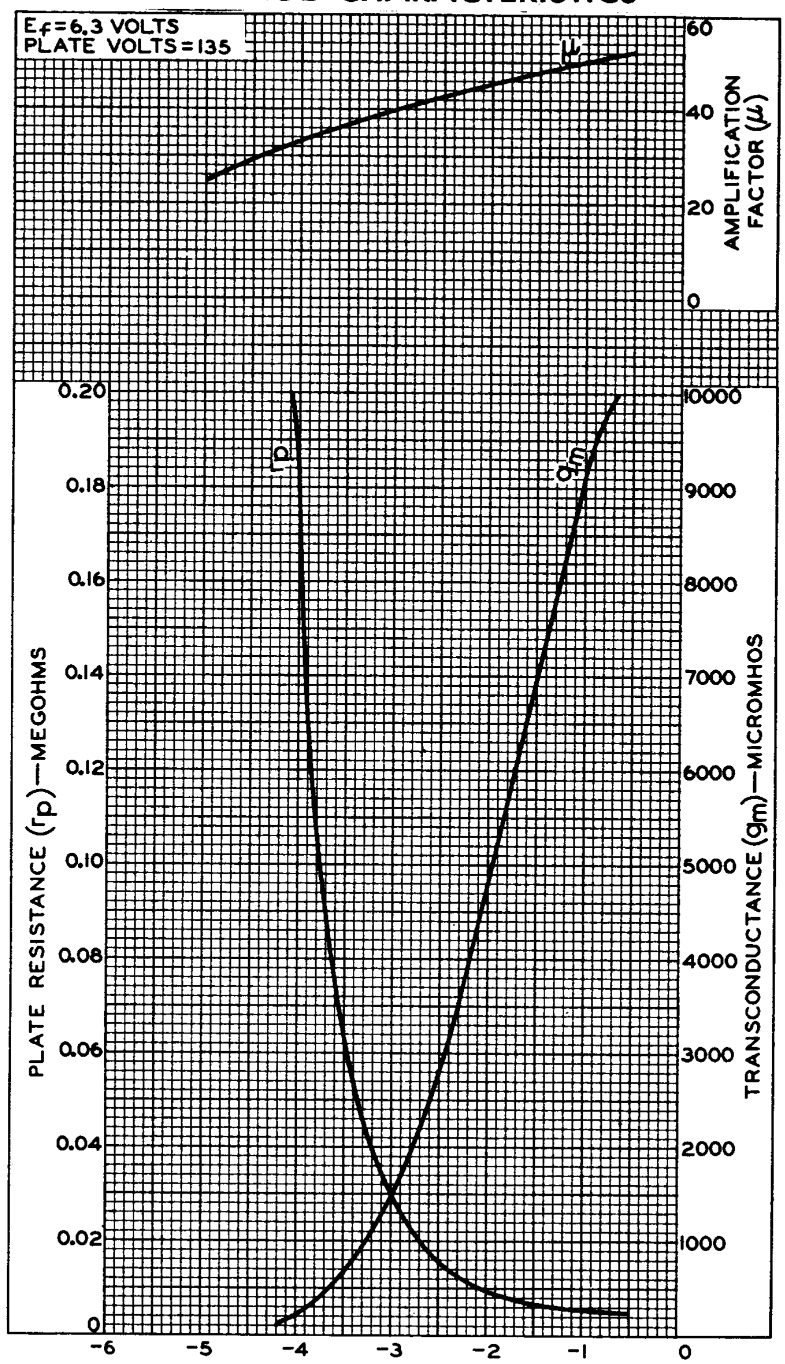
° With external shield JEDEC No.316 connected to cathode.

## AVERAGE PLATE CHARACTERISTICS




92CM-10355R1

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